The affordable alternative to high-cost computer graphics.

Specifications

installation	ROM socket D8 on either Apple mother-board or Integer Basic ROM Card®
baud rate	maximum 1200 bps; may be increased up to 9600 bps with TEKSIM Host Interface Card®
resolution	280 pixels horizontal X 192 pixels vertical
software character set	32 lines of 68 characters, with wraparound and paging
serial interface card* recom-mendations	Apple Communications Card;® D.C. Hayes Micromodem II;® TEKSIM Host Interface Card
Apple memory requirements	16K bytes for basic Tektronix simulation; 32K-48K bytes for TEKSIM Application Packs
accessories	· Apple II *Plus* Adapter Card · TEKSIM Host Interface Card
application packs	minifloppy disks interface TEKSIM to the: · Houston Instrument® HI PLOT® plotter · Houston Instrument® HI PAD® digitizing pad · Apple GRAPHICS TABLET® · Apple DISK II DRIVE® for local display storage
price	$475.
comments	*A serial interface card is required for communicating with the host. The Apple Language Card® will *not* affect, nor be affected by, TEKSIM.

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teksim

APPLE II/TEKTRONIX 4010 SIMULATOR

A product of ABNN

TEKSIM:® A new concept in graphics display

TEKSIM, the "Tektronix Simulator," is a ROM-based device that introduces a new concept in host-system computer graphics display—low cost. Simply plugging TEKSIM into the motherboard of an Apple II (widely regarded as the best of the personal microcomputers) creates an inexpensive, high-quality graphics terminal. Through *distributed processing* techniques, TEKSIM's sophisticated programming allows the Apple to display Tektronix PLOT-10* graphics data as sent by a host computer *without any modification to the host-resident program.* The TEKSIM/Apple combination functions, therefore, just like a Tektronix 4010-series terminal, drawing white lines on a black background.

Here's how a typical TEKSIM plot looks next to 4010 output:

Typical TEKSIM plot (left) versus a 4010 drawing.

Since the graphical resolution of an Apple *raster* plot is about a fourth that of a Tektronix *vector* drawing, some staircasing usually results. But TEKSIM's image quality should be more than adequate for most applications.

Cross-hair input +

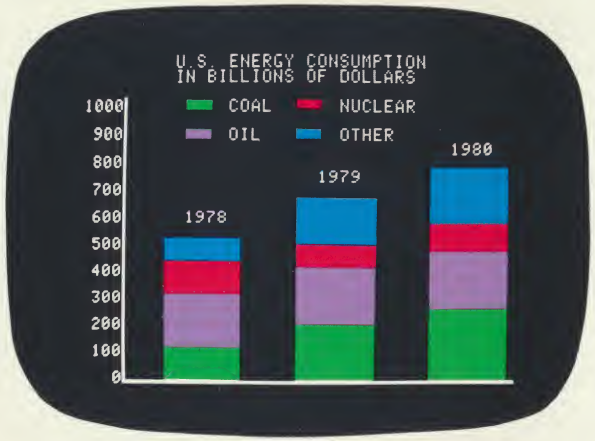
Many Tektronix terminals provide a non-destructive cross-hair cursor for graphical input to the host. TEKSIM also supplies this cross-hair, which is positioned on the display by the Apple's paddle controls (or a joystick). Use it for zooming in and out, object manipulation, menu selection—whenever you need to designate a point or region on the screen.

*or any Tektronix-compatible software

Tektronix and PLOT-10 are registered trademarks of Tektronix, Inc.

Six-color palette

The 4010-series isn't capable of color graphics. TEKSIM is. Choose different line and background colors locally. And with a few simple changes to the host program, you can add up to 6 colors to any display for some really impressive graphics!

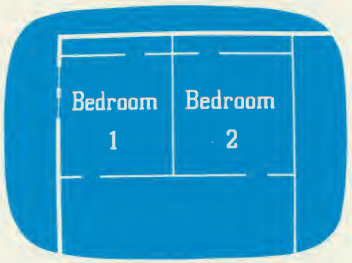


Color adds another dimension to graphics information.

Pixel-perfect selective erase

TEKSIM's *selective erase* feature lets you alter specific areas of a display without erasing the whole screen. So those intricate plots don't have to be re-drawn with every small change. You save time and memory, and software is simplified. Selective erase is essential for highly efficient interactive computer-aided design and animation.

Want to take out a wall?

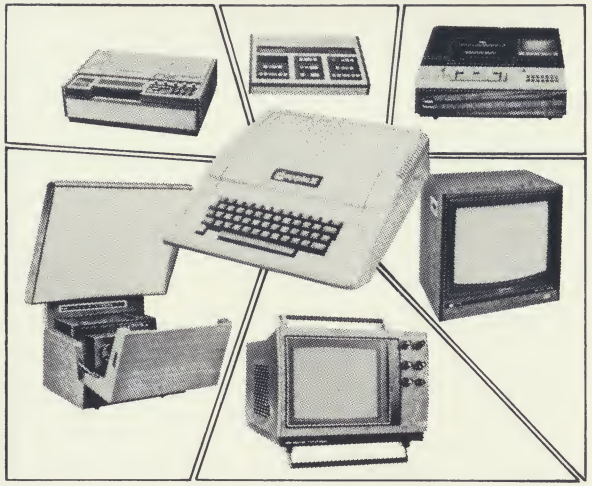


Selective erase makes the change easy.

Standard video output

Because the Apple has standard video output, any brand of TV set or monitor—in any size—can serve as the screen. And that means repair and replacement costs should be a lot less compared to conventional storage-tube terminals.

Accessories such as VTRs and projection TVs will



All kinds of accessories accept TEKSIM's standard video output.

Write your own subroutines

When the proper command is issued either locally or by your host program, TEKSIM will pass control to your own subroutines located in Apple RAM. These "user-defined" subroutines could do anything from changing TEKSIM default parameters to advanced distributed processing.

Application packs match Tektronix versatility

Special-purpose software will soon be available on disk to interface TEKSIM with several popular peripherals. Just load from an Apple disk drive and you're ready to:

produce hardcopy output with a Houston Instrument® HI PLOT® plotter *in original Tektronix resolution.*

generate digitized input with the Apple GRAPHICS TABLET® or a Houston Instrument® HI PAD® digitizing pad.

save displays locally with the Apple DISK II DRIVE® *in original Tektronix code.*

More plus than minus

In exchange for what will most often be an acceptable compromise in resolution, TEKSIM offers multicolor graphics, selective erase, standard video output; and you'll have a powerful (and portable) Apple II computer to use *out* of graphics mode, too. Given all these plusses, it may be difficult to choose between TEKSIM and a Tektronix 4010-series terminal. And there's one more TEKSIM plus—the price. Suggested retail is $475. That should make your decision a little easier.

TEKSIM, from ABW Corporation. The affordable alternative.

teksim®